

# MA3S132DG, MA3S132EG

## Silicon epitaxial planar type

For switching circuits

### ■ Features

- Short reverse recovery time  $t_{rr}$
- Small terminal capacitance  $C_t$
- Two isolated elements contained in one package, allowing high-density mounting

### ■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter		Symbol	Rating	Unit
Reverse voltage		$V_R$	80	V
Maximum peak reverse voltage		$V_{RM}$	80	V
Forward current	Single	$I_F$	100	mA
	Double		150	
Peak forward current	Single	$I_{FM}$	225	mA
	Double		340	
Non-repetitive peak forward surge current *	Single	$I_{FSM}$	500	mA
	Double		750	
Junction temperature		$T_j$	150	$^\circ\text{C}$
Storage temperature		$T_{stg}$	-55 to +150	$^\circ\text{C}$

Note) \*:  $t = 1\text{ s}$

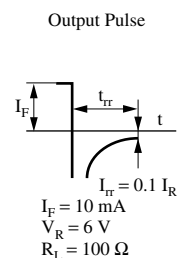
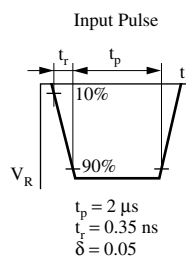
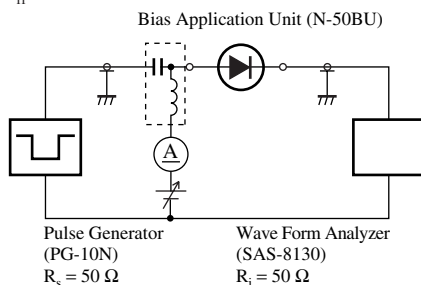
### ■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 3^\circ\text{C}$

Parameter		Symbol	Conditions	Min	Typ	Max	Unit
Forward voltage		$V_F$	$I_F = 100\text{ mA}$			1.2	V
Reverse voltage		$V_R$	$I_R = 100\text{ }\mu\text{A}$	80			V
Reverse current		$I_R$	$V_R = 75\text{ V}$			100	nA
Terminal capacitance	MA3S132DG	$C_t$	$V_R = 0\text{ V}, f = 1\text{ MHz}$			15	pF
	MA3S132EG					2	
Reverse recovery time *	MA3S132DG	$t_{rr}$	$I_F = 10\text{ mA}, V_R = 6\text{ V}$			10	ns
	MA3S132EG		$I_{rr} = 0.1 I_R, R_L = 100\text{ }\Omega$			3	

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring methods for diodes.

2. Absolute frequency of input and output is 100 MHz.

3. \*:  $t_{rr}$  measurement circuit



### ■ Package

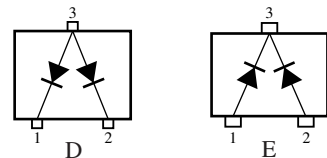
- Code  
SSMini3-F3
- Pin Name  
MA3S132DG      MA3S132EG
- 1: Cathode 1      1: Anode 1
- 2: Cathode 2      2: Anode 2
- 3: Anode      3: Cathode

### ■ Marking Symbol

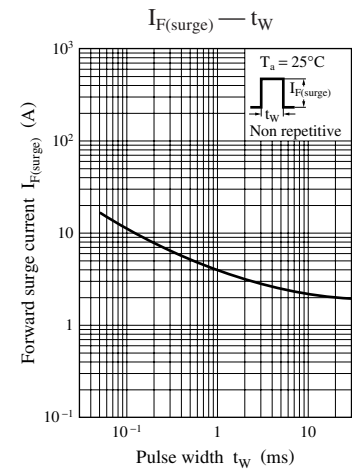
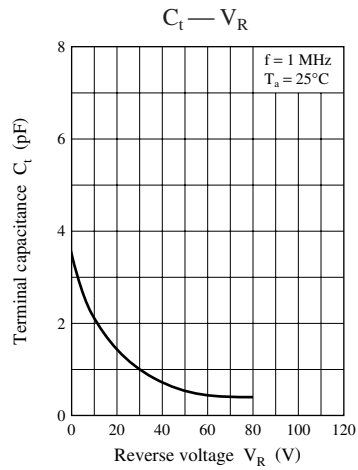
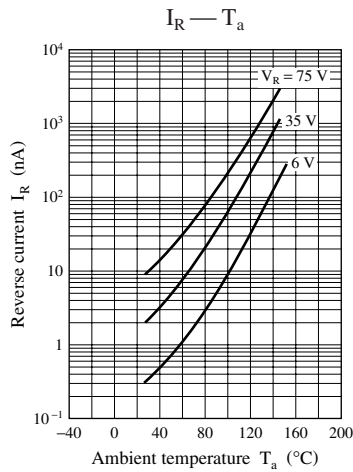
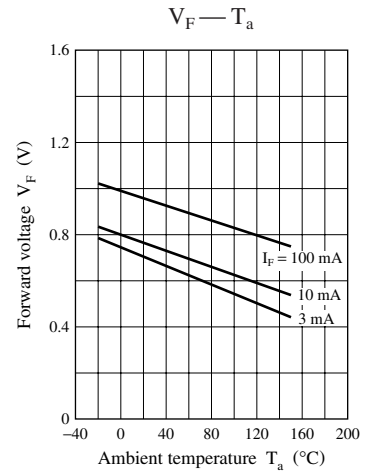
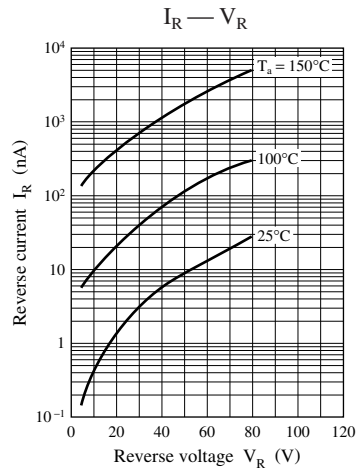
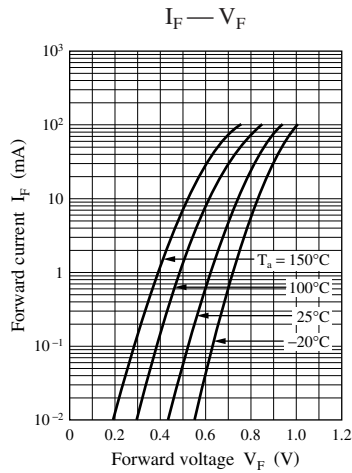
MA3S132DG: MO

MA3S132EG: MU

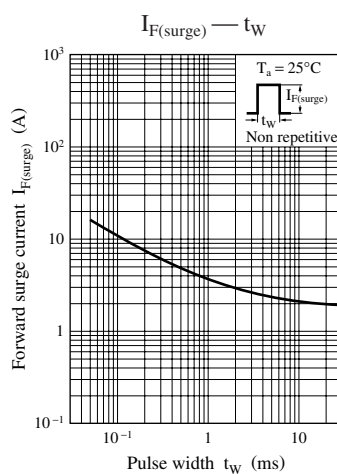
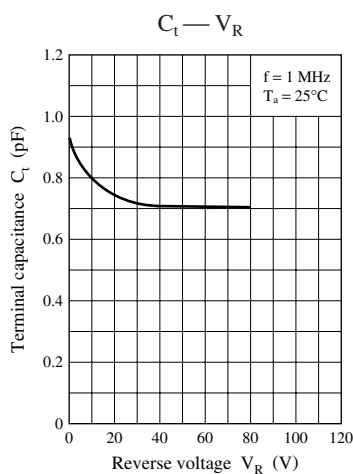
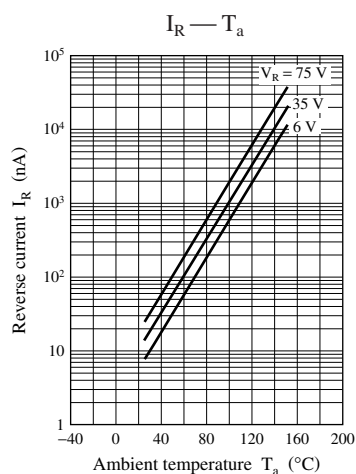
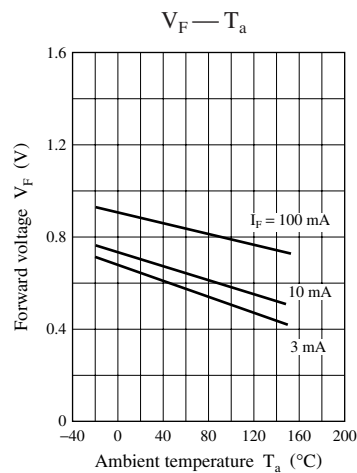
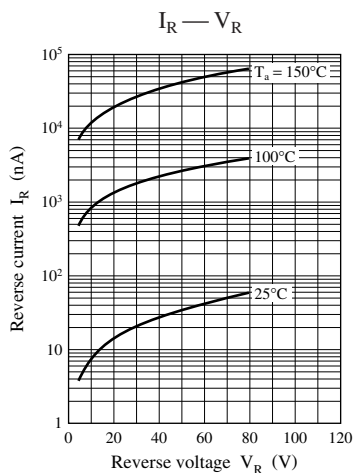
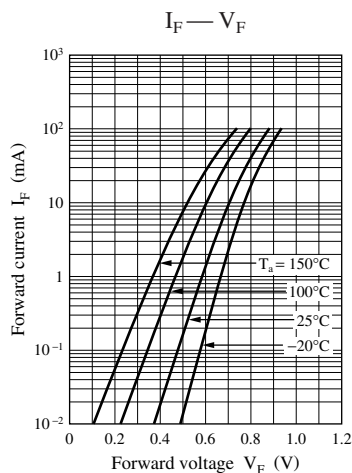
### ■ Internal Connection



## Characteristics charts of MA3S132DG

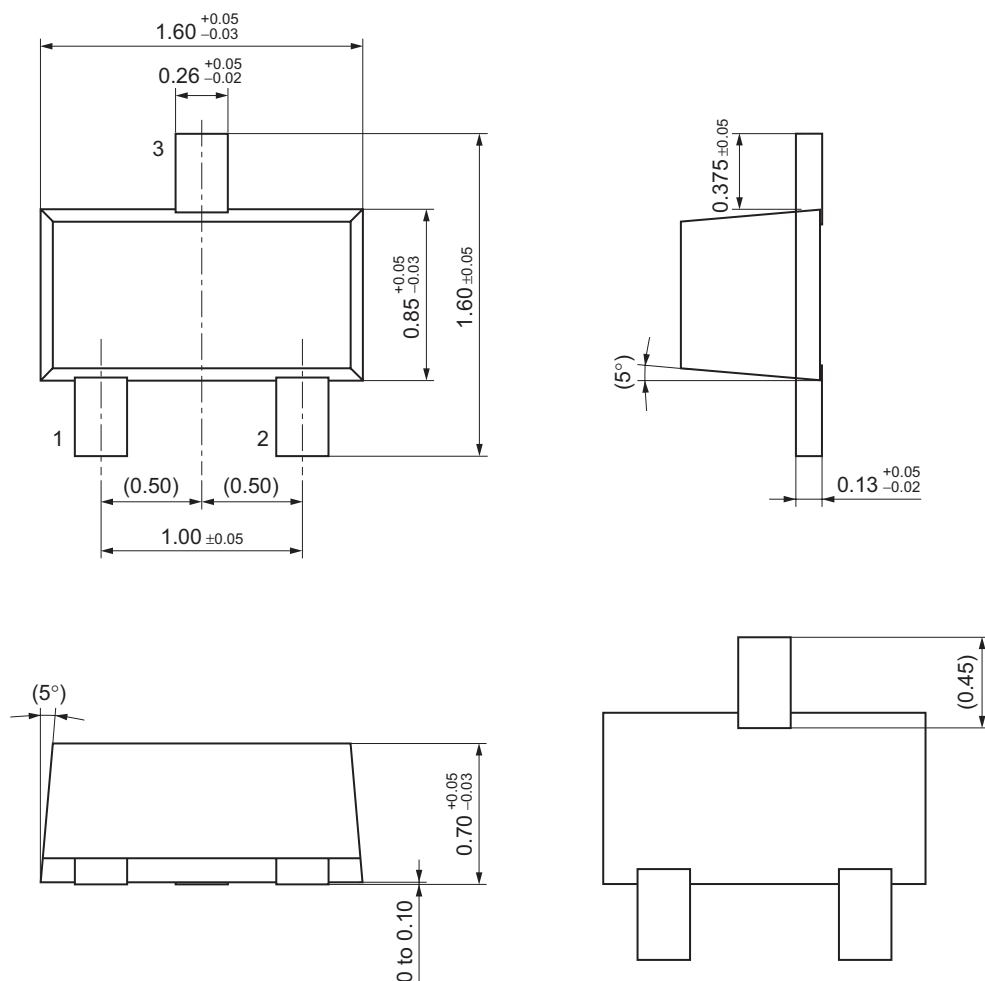


Characteristics charts of MA3S132EG



## SSMini3-F3

Unit: mm



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